



GRB7 (m): 293T Lysate: sc-125418

BACKGROUND

Many growth factors function by binding receptors with intrinsic tyrosine kinase activity. Signaling by such receptors involves a series of intermediates characterized by SH2 domains that bind tyrosine phosphorylated receptors by a direct interaction between the SH2 domain and the phosphotyrosine-containing receptor sequences. GRB7, a SH2 domain protein, has a single SH2 domain at its C-terminal, a central region with similarity to Ras GAP and a pro-line-rich N-terminus. GRB7 maps to the region on mouse chromosome 11 containing the Neu gene. This region of mouse chromosome 11 is syntenic to an area of human chromosome 17q that is frequently amplified in breast cancer. Moreover, GRB7 is amplified and over-expressed in breast cancer and is found in a complex with Neu gp185.

REFERENCES

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2. Schlessinger, J. et al. 1992. Growth factor signalling by receptor tyrosine kinases. *Neuron* 9: 383-391.
3. Margolis, B. 1992. Proteins with SH2 domains: transducers in the tyrosine kinase signalling pathway. *Cell Growth Differ.* 3: 73-80.
4. Margolis, B., et al. 1992. High-efficiency expression/cloning of epidermal growth factor-receptor-binding proteins with Src homology 2 domains. *Proc. Natl. Acad. Sci. USA* 89: 8894-8898.
5. Fantl, W.J., et al. 1993. Signalling by receptor tyrosine kinases. *Annu. Rev. Biochem.* 62: 453-481.
6. Pawson, T., et al. 1993. SH2 and SH3 domains. *Curr. Biol.* 3: 434-442.
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CHROMOSOMAL LOCATION

Genetic locus: Grb7 (mouse) mapping to 11 D.

PRODUCT

GRB7 (m): 293T Lysate represents a lysate of mouse GRB7 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

GRB7 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GRB7 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.